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March 9, 2001 Project No. 97664V3

Ms. Brenda Pohlmann Nevada Division of Environmental Protection 555 E. Washington, Suite 4300 Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on February 27, 2001 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 350 micrograms per Liter (μ g/L). The NEL report is included with this letter, along with a both a Perchlorate Summary Tables for 2000 and 2001.

In addition to the sample GES collected and submitted to NEL, a split sample was collected per the request of Mr. Kevin Mayer, with the US Environmental Protection Agency (USEPA). This split sample was collected at the same time and in the same manner as the sample submitted to NEL, and was sent, under chain-of-custody protocol, to the USEPA Laboratory in Richmond, California.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Daniel C. Burns, C.E.M.* #1692 (Expires 10/07/2001)

Project Manager

Gregory P. D Sart, P.E., C.E.M. #1172 (Expires 12/22/2002)

President

*"I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

Enc: 2000 & 2001 Perchlorate Summary Tables

NEL Analytical Report

Dist: 1 faxed to addressee at 486-2863

1 original mailed to addressee

cc: fax to Jeff Gibson, American Pacific Corporation

cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105

cc: to project file 97664V3

7150 Placid Street Las Vegas, NV 89119 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com

Las Vegas Wash at Northshore Road Bridge 2000 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)							
1/27/00	569							
2/28/00	720							
3/29/00	870							
4/27/00	750							
5/30/00	740							
6/28/00	410							
7/27/00	650							
8/28/00	510							
9/27/00	430							
10/26/00	340							
11/29/00	370							
12/26/00	320							

Las Vegas Wash at Northshore Road Bridge 2001 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)
1/25/01	280
2/27/01	350

NEL LABORATORIES

Reno • Las Vegas • Boise Phoenix • Sacramento

Las Vegas Division 4208 Arcata Way, Suite A • Las Vegas, NV 89030 (702) 657-1010 · Fax: (702) 657-1577 1-888-368-3282

CLIENT:

Geotechnical & Env. Serv.

7150 Placid

Las Vegas, NV 89119

ATTN:

Dan Burns

PROJECT NAME:

FPF

PROJECT NUMBER: 97664 V3

NEL ORDER ID: L0102243

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 2/27/01.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Stan Van Wagenen Laboratory Manager

CERTIFICATIONS:

Reno Las Vegas S. California AZ0520 AZ0518 AZ0605 Arizona California 1707 2002 2264

U\$ Army Corps of Engineers

Certified Certified

Idaho Montana Nevada

L.A.C.S.D.

Las Vegas S. California Reno Certified Certified Certified

Certified NV033 NV052

CA084 10228

NEL LABORATORIES

CLIENT:

Geotechnical & Env. Serv.

PROJECT ID: PROJECT #:

FPF

97664 V3

CLIENT ID:

North Shore Road Bridge

DATE SAMPLED: 2/27/01

NEL SAMPLE ID: L0102243-01

TEST:

Inorganic Non-Metals

MATRIX:

Aqueous

PARAMETER	RESULT	<u>R. L.</u>	<u>D. F.</u>	METHOD	UNITS	ANALYZED
Perchlorate	350	40.	10	EPA 314	μg/L	3/1/01

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

NEL LABORATORIES

CLIENT:

PROJECT #:

Geotechnical & Env. Serv.

PROJECT ID: **FPF**

97664 V3

CLIENT ID:

Method Blank

DATE SAMPLED: NA

NEL SAMPLE ID: 010301CLO4-BLK

TEST:

Non-Metals

REPORTING

PARAMETER Perchiorate

RESULT ND

LIMIT

D. F. 1

EPA 314

UNITS μg/L

<u>ANALYZED</u> 3/1/01

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

Company: Aboution: Dan Burns	(702) 857-3010 • FAX: (702) 857-3577 • 1-888-368-3282	Las Vegas Division - 4208 Arcata Way, Ste. A - Las Vegas, NV 89030	NEL LABORATORIES Reno · Las Vegas Phoenix · So. California								
Analysis		Purchase Order Number: 1907	Project Name: FDF	CHAIN OF CUSTODY							
		Sampled By: R. Carlos	Project Number 9766403	NEL Work Order: LOIDAA43							

	2. (BOHILLO STERMINE	2	'C' Land Cooke Mes of Riche	Relinquished by (Print) / (Signature)	Custody Seal intact? Y N (None) Temp. (1)							140 /2/27/01 North Shore Road Bridge	Time/Date Sampled Customer Sample Identification	Requested Turnaround: 5-day2-day1-day		Biling Addrése: Expec	762 St 5-100 (Tex Minus) 341-7/20	7150 Placid St. Las Vegas, NV.	Attention: Day Burns
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The liability of NEL Laboratories inc. is limited strictly to the price of samples analysis for those samples received in good condition by NEL. NEL is not responsible for loss, dismage, resampling costs analysis and data related to samples not received in good condition. Dynamic samples when the samples were samples of samples and conditions. Signature also constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are aneasured in regular working days. Samples received at the laboratory after 15:30 will be considered received on the next working days. Commitment of laboratory in the requested turnaround time will be confirmed via Samples Commitment to the hax number provided above.

7 03/69/2001 14:42